



Attorney Docket No.: YOR919990588US2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Rudolf Maarten Bolle  
Chitra Dorai  
Nalini K. Ratha

Docket No.: YOR919990588US2

Serial No.: Unassigned

Filing Date: Concurrently Herewith

Title: **SYSTEM AND METHOD FOR DISTORTION CHARACTERIZATION IN FINGERPRINT AND PALM-PRINT IMAGE SEQUENCES AND USING THIS DISTORTION AS A BEHAVIORAL BIOMETRICS**

INFORMATION DISCLOSURE STATEMENT

Commissioner of Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. §§1.56, 1.97 and 1.98, Applicant's attorney wishes to bring to the attention of the Patent and Trademark Office the following document(s) listed on the accompanying PTO Form 1449. Copies of non-patent documents can be provided upon Examiner's request.

U.S. Patent Documents

1. U.S. Patent No. 5,933,515
2. U.S. Patent No. 6,323,846
3. U.S. Patent No. 6,388,657
4. U.S. Patent No. 6,466,686
5. U.S. Patent No. 6,487,306

Other Documents

6. Bergen et al., "Hierarchical Model-Based Motion Estimation," pgs. 237, 251 (May 1992).
7. Dorai et al., "Extracting Motion Annotations from MPEG-2 Compressed Video for HDTV Content Management Applications," International Conference on Multimedia Computing and Systems, June 7-11, 1999, Florence Italy, IEEE Multimedia Systems '99, Vol. 1, pgs. 673-678 (1999).

8. Haskell et al., "Digital Video: An Introduction to MPEG-2," Motion Compensation Modes in MPEG, Chapter 7, pgs. 146-155 (1997).
9. Nalwa, V.S., "Automatic On-Line Signature Verification," Proceedings of the IEEE, Vol. 85, No. 2, pgs. 215-239 (February 1997).
10. Ratha et al., "Adaptive Flow Orientation-Based Feature Extraction in Fingerprint Images," Pattern Recognition, Vol. 28, No. 11, pgs. 1657-1672 (1995).
11. Ratha et al., "A Real-Time Matching System for Large Fingerprint Database," IEEE Transactions on Pattern Analysis and Machine Intelligence, Vol. 18, No. 8, pgs. 799-813 (1996).

The filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made, or as an admission that the information cited is considered to be material to patentability or that no other material information exists.

Respectfully submitted,

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Date: September 3, 2003

Duplicata  
dated 9/3/04  
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**LIST OF PUBLICATIONS FOR  
APPLICANT'S INFORMATION  
DISCLOSURE STATEMENT**

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS/SUBCLASS	FILING DATE IF APPROPRIATE
_____	5,933,515	08/03/99	Pu et al.	345/173	_____
_____	6,323,846	11/01	Westerman et al.	345/168	_____
_____	6,388,657	05/02	Natoli et al.	382/124	_____
_____	6,466,686	10/02	Senior, Andrew William	382/125	_____
_____	6,487,306	11/02	Jain et al.	_____	_____

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NO.	DATE	COUNTRY	CLASS/SUBCLASS	TRANSLATION YES NO
_____	_____	_____	_____	_____	_____

**OTHER DOCUMENTS**

EXAMINER INITIAL	REF NO.	AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
_____	_____	Bergen et al., "Hierarchical Model-Based Motion Estimation," pgs. 237, 251 (May 1992).
_____	_____	Dorai et al., "Extracting Motion Annotations from MPEG-2 Compressed Video for HDTV Content Management/ Applications," International Conference on Multimedia Computing and Systems, June 7-11, 1999, Florence Italy, IEEE Multimedia Systems '99, Vol. 1, pgs. 673-678 (1999).
_____	_____	Haskell et al., "Digital Video: An Introduction to MPEG-2," Motion Compensation Modes in MPEG, Chapter 7, pgs. 146-155 (1997).
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Examiner

Date Considered

**Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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